

TO: Suborbital Science Program
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Flight Report

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| Aircraft : | Kenn Borek Air DC-3T Basler |
| Operating Site(s) From / To : | Casey Skiway/Casey Skiway |
| Flight Date : | December 18, 2009 (AEDT) |
| Flight Number / Data Flight # : | F24 / 22 |
| Time out: | 0940 UTC |
| Time in: | 1645 UTC |
| Flight Time : | 7.1 hrs |
| Flt Request # / PI: | NASA 20090602-084128 (Blankenship) |
| Purpose of Flight : | Data [X] Ferry [] Functional Check [] Other [] |
| Sensor Payload : | University of Texas at Austin HiCARS ice penetrating radar; UT Reigl LD-90 laser distance meter; UT Geometrics 823-A magnetometer; USAF Sigma Space photon counting lidar, NGA BGM-3 gravity meter |
| Comments : | <p>The aircraft flew on its forth survey flight from Casey's skiway. The primary target were reflights of icesat tracks 211 and 77 for surface elevation along the main truck of Totten Glacier. Valid laser data was recovered from 93% of the icesat reflights.</p> <p>Radar, laser, gravity and magnetic data systems performed excellently – 2145 line kilometers of data were collected. A mechanical issue with the prototype photon counting lidar was indicated toward the end of the flight, and is being assessed.</p> |

SUBMITTED BY: Duncan Young 22 December 2009